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BOOKS AND PERIODICALS.

On Several Classes of Simple Groups. By Dr. G. A. Miller. A Reprint from the Proceedings of the London Mathematical Society, Vol. XXXI., No. 688.

The Construction of County Roads and Bridges. An Address prepared for the Good Roads Club of Brazos County, Texas, July, 1899. By J. C. Nagle, Professor of Civil Engineering in the Agricultural and Mechanical College of Texas.

Plane Trigonometry for Colleges and Secondary Schools. By Daniel A. Murry, B. A., Ph. D., Instructor in Mathematics in Cornell University; Former-Scholar and Fellow at Johns Hopkins University. Crown 8vo. Cloth, xiii+206 pages with a Protractor. Price, $0.90.

The scope of this work covers the ordinary course in plane trigonometry in colleges and secondary schools, and treats of all the topics that one who has taken a few month's course in trigonometry may reasonably be expected to know. The work begins with a brief treatment of logarithms, introducing the subject with a short historical sketch. Chapter II treats of trigonometric ratios of acute angles. A noteworthy feature of the book is the many historical notes by which many of the subjects are introduced. This feature of the modern text-book is to be highly praised, as many erroneous notions in the minds of students as to the development of mathematics, are thereby corrected. The typography and mechanical execution of the book are in keeping with the scientific excellence of its contents.
B. F. F.

The Laws of Gases. Memoirs by Robert Boyle and E. H. Amogat. Translated by Carl Barus, Professor of Physics in Brown University.

By translating these memoirs, the translator has made accessible to many these valuable investigations and has thus materially contributed to the advancement of science.
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The Second Law of Thermodynamics. Memoirs by Carnot, Clausius, and Thomson. Translated and Edited by W. F. Magie, Ph. D., Professor of Physics in Princeton University. 8vo. Cloth, 110 pages. Chicago: The American Book Co.

The contents of this book is, Reflections on the Motive Power of Heat, by Sadi Carnot, with biographical sketch of Carnot; On the Motive Power of Heat, and on the Laws which can be Deduced from it for the Theory of Heat, by R. Clausius, with a biographical sketch of the author; The Dynamical Theory of Heat, by Lord Kelvin, with a biographical sketch of Lord Kelvin.
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The Fundamental Laws of Electrolytic Conduction. Memoirs by Faraday, Hittorf, and F. Kohlrausch. Translated by H. M. Goodwin, Ph. D., Assistant Professor of Physics in the Massachusetts Institute of Technology. 8vo. Cloth, 98 pages. Chicago: The American Book Co.

The contents of this book are, Relation of Common and Voltaic Electricity, by Michael Farady; On Electro-Chemical Decomposition, by Michael Farady, with biographical sketch of Farady; On the Migration of Ions during Electrolysis, by W. Hittorf, with biographical sketch of Hittorf; On the Conductivity of Electrolytes Dissolved in Water in Relation to the Migration of their Components, by F. Kohlrausch, with a biographical sketch of the author.
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